

FORM PTO-1449

**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
2060.005000B/HCC/PACAPPLICATION NO.
09/017,524APPLICANT
KUBO et al.FILING DATE
February 3, 1998GROUP
1644**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AS	AA1	5,503,829	04/02/1996	Ladant et al.	—	—	11/07/1994
	AB1	5,662,907	09/02/1997	Kubo et al.	—	—	01/25/1994
	AC1	6,034,214	03/07/2000	Boon et al.	—	—	12/13/1994
	AD1	6,037,135	03/14/2000	Kubo et al.	—	—	11/29/1993
	AE1	2002/0168374 A1	11/14/2002	Kubo et al.	—	—	03/20/1997
	AF1	2002/0177694 A1	11/28/2002	Sette et al.	—	—	02/03/1998
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
AP	AL1	EP 0 044 710 A1	01/27/1982	Europe	—	—	Yes No
	AM1	EP 0 226 513 A1	06/24/1987	Europe	—	—	ABSTRACT ONLY X Yes No
	AN1	WO 92/12996 A2	08/06/1992	WIPO	—	—	Yes No
	AO1	WO 93/03764 A1	03/04/1993	WIPO	—	—	Yes No
	AP1	WO 94/03205 A1	02/17/1994	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AS	AR	1	Alexander, J., et al., "Derivation of HLA-A11/K ^b Transgenic Mice. Functional CTL Repertoire and Recognition of Human A11-Restricted CTL Epitopes," J. Immunol. 159:4753-4761, The American Association of Immunologists (November 1997)
	AS	1	Bergmann, C.C., et al., "Differential Effects of Flanking Residues on Presentation of Epitopes from Chimeric Peptides," J. Virol. 68:5306-5310, American Society for Microbiology (August 1994)
	AT	1	Bertoni, R., et al., "Human Histocompatibility Leukocyte Antigen-binding Supermotifs Predict Broadly Cross-reactive Cytotoxic T Lymphocyte Responses in Patients with Acute Hepatitis," J. Clin. Invest. 100:503-513, The American Society for Clinical Investigation, Inc. (August 1997)

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Ann D. Chung

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7-15-03

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AM	AL2	WO 96/03140 A1	02/08/1996	WIPO	—	—	Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AM	AR	2	Bertoni, R., et al., "Human Class I Supertypes and CTL Repertoires Extend to Chimpanzees," <i>J. Immunol.</i> 161:4447-4455, American Association of Immunologists (October 1998)
	AS	2	Bjorkman, P.J., et al., "The foreign antigen binding site and T cell recognition regions of class I histocompatibility antigens," <i>Nature</i> 329:512-518, Macmillan Publishers, Ltd. (1987)
	AT	2	Corr, M., et al., "Endogenous Peptides of a Soluble Major Histocompatibility Complex Class I Molecule, H-2L ^d : Sequence Motif, Quantitative Binding, and Molecular Modeling of the Complex," <i>J. Exp. Med.</i> 176:1681-1692, Rockefeller University Press (December 1992)

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AR	3	Del Val, M., et al., "Efficient Processing of an Antigenic Sequence for Presentation by MHC Class I Molecules Depends on Its Neighboring Residues in the Protein," Cell 66:1145-1153, Cell Press (September 1991)
AS	3	DiBrino, M., et al., "HLA-A1 and HLA-A3 T Cell Epitopes Derived from Influenza Virus Proteins Predicted from Peptide Binding Motifs," J. Immunol. 151:5930-5935, The Association of Immunologists (December 1993)
AT	3	Ding, Y.-H., et al., "Two Human T Cell Receptors Bind in a Similar Diagonal Mode to the HLA-A2/Tax Peptide Complex Using Different TCR Amino Acids," Immunity 8:403-11, Cell Press (April 1998)

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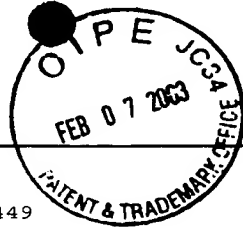
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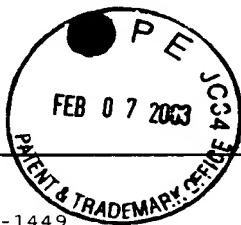
AR	4	Eisenlohr, L.C., et al., "Flanking Sequences Influence the Presentation of an Endogenously Synthesized Peptide to Cytotoxic T Lymphocytes," <i>J. Exp. Med.</i> 175:481-487, The Rockefeller University Press (February 1992)
AS	4	Falk, K., et al., "MHC peptide motif register. Peptide motifs of HLA-B35 and -B37 molecules," <i>Immunogenetics</i> 38:161-162, Springer-Verlag (April 1993)
AT	4	Falk, K., et al., "Allele-specific peptide ligand motifs of HLA-C molecules," <i>Proc. Natl. Acad. Sci. USA</i> 90:12005-12009, National Academy Press (December 1993)

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AR	<u>5</u>	Falk, K., et al., "Pool sequencing of natural HLA-DR, DQ, and DP ligands reveals detailed peptide motifs, constraints of processing, and general rules," <i>Immunogenetics</i> 39:230-242, Springer-Verlag (February 1994)
AS	<u>5</u>	Falk, K., et al., "Peptide motifs of HLA-A1, -A11, -A31, and -A33 molecules," <i>Immunogenetics</i> 40:238-241, Springer-Verlag (July 1994)
AT	<u>5</u>	Geysen, H.M., et al., "Cognitive Features of Continuous Antigenic Determinants," <i>J. Mol. Recognit.</i> 1:32-41, Heyden & Sons, Ltd. (1988)

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	APPLICANT KUBO et al.	
	FILING DATE February 3, 1998	GROUP 1644

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AR	6	Guo, H.-C., et al., "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle," <i>Nature</i> 360:364-366, Macmillan Publishers, Ltd. (November 1992)
AS	6	Hill, A., et al., "Characterization of two Epstein-Barr virus epitopes restricted by HLA-B7," <i>Eur. J. Immunol.</i> 25:18-24, VCH Verlagsgesellschaft mbH (January 1995)
AT	6	Ishioka, G.Y., et al., "Utilization of MHC Class I Transgenic Mice for Development of Minigene DNA Vaccines Encoding Multiple HLA-Restricted CTL Epitopes," <i>J. Immunol.</i> 162:3915-3925, The American Association of Immunologists (April 1999)

EXAMINER <i>Ann De Clor</i>	DATE CONSIDERED 4-15-03
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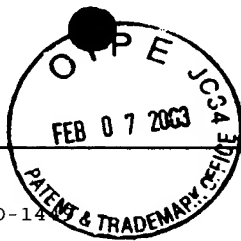
	AR	2	Jameson, S.C., and Bevan, M.J., "Dissection of major histocompatibility complex (MHC) and T cell receptor contact residues in a K ^p -restricted ovalbumin peptide and an assessment of the predictive power of MHC-binding motifs," <i>Eur. J. Immunol.</i> 22:2663-2667, VCH Verlagsgesellschaft mbH (October 1992)
	AS	2	Kast, W.M., et al., "Strict peptide length is not required for the induction of cytotoxic T lymphocyte-mediated antiviral protection by peptide vaccination," <i>Eur. J. Immunol.</i> 23:1189-1192, VCH Verlagsgesellschaft mbH (May 1993)
	AT	2	Lipford, G.B., et al., "Primary in Vivo Responses to Ovalbumin. Probing the Predictive Value of the K ^p Binding Motif," <i>J. Immunol.</i> 150:1212-1222, The American Association of Immunologists (February 1993)

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AR	8	Niedermann, G., et al., "The proteolytic fragments generated by vertebrate proteosomes: Structural relationships to major histocompatibility complex class I binding peptides," <i>Proc. Natl. Acad. Sci. USA</i> 93:8572-8577, National Academy Press (August 1996)
AS	8	Ochoa-Garay, J., et al., "The ability of peptides to induce cytotoxic T cells in vitro does not strongly correlate with their affinity for the H-2L ^d molecule: implications for vaccine design and immunotherapy," <i>Mol. Immunol.</i> 34:273-281, Elsevier Science, Ltd. (February 1997)
AT	8	Parham, P., et al., "The Origins of HLA-A,B,C Polymorphism," <i>Immunol. Rev.</i> 143:141-180, Munksgaard (February 1995)

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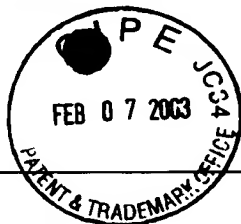
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As ↓	AR	2	Reddehase, M.J., et al., "A pentapeptide as minimal antigenic determinant for MHC class I-restricted T lymphocytes," <i>Nature</i> 337:651-653, Macmillan Publishers, Ltd. (1989)
	AS	2	Rothbard, J.B., "Major histocompatibility complex-peptide interactions," <i>Curr. Opin. Immunol.</i> 2:99-105, Current Biology, Ltd. (1989)
	AT	2	Rötzschke, O., et al., "Peptide motifs of closely related HLA class I molecules encompass substantial differences," <i>Eur. J. Immunol.</i> 22:2453-2456, VCH Verlagsgesellschaft mbH (September 1992)

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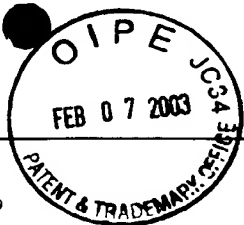
AR	10	Rötzschke, O., and Falk, K., "Origin, structure and motifs of naturally processed MHC class II ligands," <i>Curr. Opin. Immunol.</i> 6:45-51, Current Biology, Ltd. (February 1994)
AS	10	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A., ed., University Park Press, Baltimore, MD, pp.1-7 (1976)
AT	10	Ruppert, J., et al., "Prominent Role of Secondary Anchor Residues in Peptide Binding to HLA-A2.1 Molecules," <i>Cell</i> 74:929-937, Cell Press (September 1993)

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AR	11	Schulz, M., et al., "Major histocompatibility complex binding and T cell recognition of a viral nonapeptide containing a minimal tetrapeptide," <i>Eur. J. Immunol.</i> 21:1181-1185, VCH Verlagsgesellschaft mbH (May 1991)
AS	11	Sette, A., et al., "The Relationship Between Class I Binding Affinity and Immunogenicity of Potential Cytotoxic T Cell Epitopes," <i>J. Immunol.</i> 153:5586-5592, The American Association of Immunologists (December 1994)
AT	11	Shastri, N., et al., "Presentation of Endogenous Peptide/MHC Class I Complexes Is Profoundly Influenced by Specific C-Terminal Flanking Residues," <i>J. Immunol.</i> 155: 4339-4346, The American Association of Immunologists (November 1995)

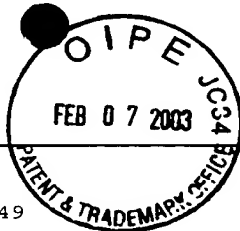
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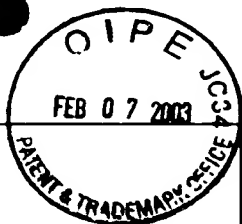
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AR	12	Sherman, L.A., et al., "Extracellular Processing of Peptide Antigens That Bind Class I Major Histocompatibility Molecules," J. Exp. Med. 175:1221-1226, The Rockefeller University Press (May 1992)	
AS	12	Sidney, J., et al., "Several HLA Alleles Share Overlapping Peptide Specificities," J. Immunol. 154:247-259, The American Association of Immunologists (January 1995)	
AT	12	Threlkeld, S.C., et al., "Degenerate and Promiscuous Recognition by CTL of Peptides Presented by the MHC Class I A3-like Superfamily. Implications for Vaccine Development," J. Immunol. 159:1648-1657, The American Association of Immunologists (August 1997)	

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>13</u>	Wentworth, P.A., et al., "Differences and similarities in the A2.1-restricted cytotoxic T cell repertoire in humans and human leukocyte antigen-transgenic mice," Eur. J. Immunol. 26:97-101, VCH Verlagsgesellschaft mbH (January 1996)
AS	<u>13</u>	Whitton, J.L., et al., "Molecular Analyses of a Five-Amino-Acid Cytotoxic T-Lymphocyte (CTL) Epitope: an Immunodominant Region Which Induces Nonreciprocal CTL Cross-Reactivity," J. Virol. 63:4303-4310, American Society for Microbiology (1989)
AT	<u>13</u>	Yewdell, J.W., and Bennink, J.R., "Cell Biology of Antigen Processing and Presentation to Major Histocompatibility Complex Class I Molecule-Restricted T Lymphocytes," Adv. Immunol. 52:1-123, Academic Press (July 1992)

EXAMINER

Ann De Leone

DATE CONSIDERED

4-15-93

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-144

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 2060.005000B/HCC/PAC	APPLICATION NO. 09/017,524
APPLICANT KUBO et al.	
FILING DATE February 3, 1998	GROUP 1644

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
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	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

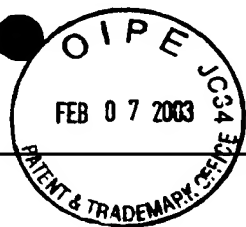
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	York, I.A., and Rock, K.L., "Antigen processing and presentation by the class I major histocompatibility complex," Annu. Rev. Immunol. 14:369-396, Annual Reviews, Inc. (April 1996)
	AS	14	Zhang, Q-J., et al., "An HLA-A11-specific motif in nonamer peptides derived from viral and cellular proteins," Proc. Natl. Acad. Sci. USA 90:2217-2221, National Academy Press (March 1993)
	AT	14	Parker, K.C., et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," J. Immunol. 152:163-175, The American Association of Immunologists (January 1994)

EXAMINER 	DATE CONSIDERED 6-15-03
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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Page 15 of 16

FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
2060.005000B/HCC/PAC

APPLICATION NO.
09/017,524

APPLICANT
KUBO et al.

FILING DATE
February 3, 1998

GROUP
1644

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	15	Dialog File 351, Accession No. 7180926, Derwent WPI English language abstract for EP 0 226 513.
AS	15	Copy of co-pending U.S. application 08/205,713, inventor Grey, filed March 4, 1994 (NOT PUBLISHED).
AT	15	Copy of co-pending U.S. application 08/344,824, inventors Sette et al., filed November 23, 1994 (NOT PUBLISHED).

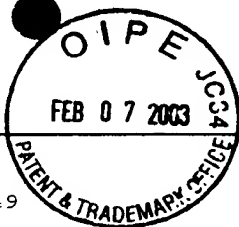
EXAMINER

C. D. Glone

DATE CONSIDERED

4-15-03

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FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
2060.005000B/HCC/PACAPPLICATION NO.
09/017,524APPLICANT
KUBO et al.FILING DATE
February 3, 1998GROUP
1644

U.S. PATENT DOCUMENTS

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	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	Copy of co-pending U.S. application 08/347,610, inventors Kubo et al., filed December 1, 1994 (NOT PUBLISHED).
	AS	16	Copy of co-pending U.S. application 08/452,843, inventors Sette et al., filed March 30, 1995 (NOT PUBLISHED).
	AT	16	Copy of co-pending U.S. application 10/089,942, inventors Sette et al., § 371 date October 18, 2002 (NOT PUBLISHED).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449

Docket Number 399632000420

Application Number 09/017,524

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Applicant

Ralph T. KUBO et al.

Filing Date February 3, 1998

Group Art Unit 1644

Mailing Date July 3, 2001

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
AO	1.	Aichele et al., "Antiviral Cytotoxic T Cell Response Induced by In Vivo Priming with a Free Synthetic Peptide" J. Exp. Med. (1990) 171:1815-1820
	2.	Bruss, "A Short Linear Sequence in the Pre-S Domain of the Large Hepatitis B Virus Envelope Protein Required for Virion Formation" Journal of Virology (1997) 71(12):9350-9357
	3.	Chemical Abstracts, Immunology (1996) 126(19):870
	4.	Cordingley et al., "Substrate Requirements of Human Rhinovirus 3C Protease for Peptide Cleavage <i>in Vitro</i> " The Journal of Biological Chemistry (1990) 265(16): 9062-9065
	5.	Deres et al., "In vivo Priming of Virus-Specific Cytotoxic T Lymphocytes with Synthetic Lipopeptide Vaccine" Nature (1989) 342:561-564
	6.	Engelhard, "Structure of Peptides Associated with MHC Class I Molecules" Current Opinion in Immunology (1994) 6:13-23
07/24/2001 GDUCKETT 00000001 031932 09077524 01 FC:126 180.00 CH 2287	7.	Kasay et al., "Protection Against Lethal Sendai Virus Infection <i>in vivo</i> Priming of Virus-Specific Cytotoxic T Lymphocytes with a Free Synthetic Peptide" Proc. Natl. Acad. Sci. USA (1991) 88:2283-2287
	8.	Kumar et al., "Amino Acid Variations at a Single Residue in an Autoimmune Peptide Profoundly Affect its Properties: T-Cell Activation, Major Histocompatibility Complex Binding, and Ability to Block Experimental Allergic Encephalomyelitis" Proc. Natl. Acad. Sci. USA (1990) 87:1337-1341
	9.	Maryanski et al., "Synthetic Peptides as Antigens and Competitors in Recognition by H-2-Restricted Cytolytic T Cells Specific for HLA" J. Exp. Med. (1988) 167:1391-1405
	10.	Patarroyo et al., "Induction of Protective Immunity Against Experimental Infection with Malaria Using Synthetic Peptides" Nature (1987) 328:629-632

EXAMINER: (examiner)

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449		Docket Number 399632000420	Application Number 09/017,524
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant Ralph T. KUBO et al.	
		Filing Date February 3, 1998	Group Art Unit 1644
		Mailing Date July 3, 2001	
11.	Preisler-Adams, "Complete Nucleotide Sequence of a Hepatitis B Virus, Subtype adw2, and Identification of Three Types of C Open Reading Frame" Nucleic Acids Research (1993) 21(9):2258		
12.	Robson et al., "A Highly Conserved Amino-Acid Sequence in Thrombospondin, Properdin and in Proteins from Sporozoites and Blood Stages of a Human Malaria Parasite" Nature (1988) 335:79-82		
13.	Shankar et al., "Three Regions of HIV-1 gp160 Contain Clusters of Immunodominant CTL Epitopes" Immunology Letters (1996) 52:23-30		
<div style="border: 1px solid black; height: 400px; width: 100%;"></div>			
EXAMINER: <i>Amy DeCloux</i>		DATE CONSIDERED: <i>4-15-03</i>	
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			